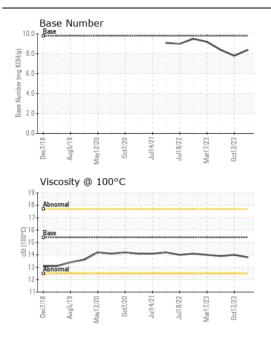
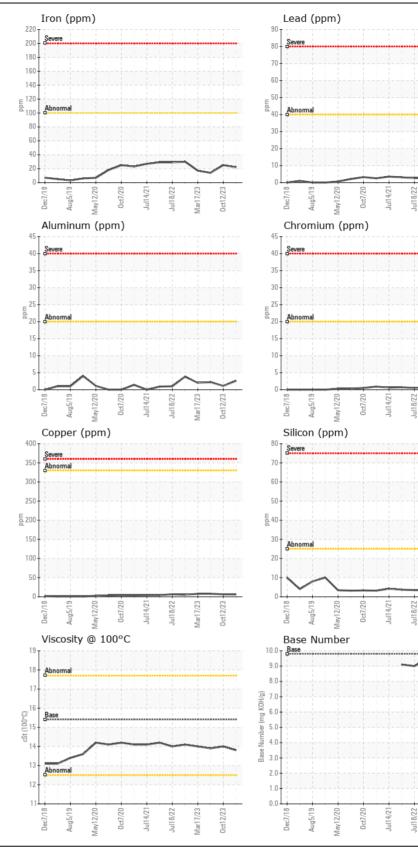


NORMAL WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION

Are KEMP QUARRIES / BCS - GRAVETTE [67745] WL124 Component Diesel Engine PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	00111	Client Info	Ennorion	PCA0069785	PCA0086993	PCA0086295
Resample at the next service interval to monitor. (Customer Sample	Sample Date		Client Info		08 Feb 2024	12 Oct 2023	06 Jul 2023
Comment: Pm3)	Machine Age	hrs	Client Info		37365	37365	36752
	Oil Age	hrs	Client Info		37365	37365	36752
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m		22	25	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
Al component wear fates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	1	2
	Lead	ppm	ASTM D5185m		3	2	<1
	Copper	ppm	ASTM D5185m		6	6	8
	Tin	ppm	ASTM D5185m	>15	<1	0	1
	Vanadium	ppm	ASTM D5185m		<1 NONE		
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	6	9
	Potassium	ppm	ASTM D5185m		2	3	1
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.9	1.2	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.3	6.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.7	19.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	2
	Boron		ASTM D5185m	0	0	<1	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		58	57	56
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	973	917	967
	Calcium	ppm	ASTM D5185m		1278	1106	1122
	Phosphorus	ppm	ASTM D5185m	1150	1112	1009	1047
	Zinc	ppm	ASTM D5185m		1324	1265	1306
	Sulfur	ppm	ASTM D5185m	2060	3134	3015	3782
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.5	14.9
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	7.8	8.4
	Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.0	13.9





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Laboratory Kemp Quarries - Benton County Stone - Gravette Sample No. : PCA0069785 Received : 26 Feb 2024 15100 N Hwy 59 Lab Number : 06100660 : 27 Feb 2024 Sulphur Springs, AR Tested Unique Number : 10898890 : 28 Feb 2024 - Sean Felton US 72768 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. gravette@bentoncountystone.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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